

Appendix table 5-7.

Total, Federal, and non-Federal R&D expenditures at academic institutions, by field and source of funds: 1999

Field	Total R&D		Millions of dollars		Percent	
	Millions of dollars	Percent	Federal	Non-Federal ^a	Federal	Non-Federal ^a
Total S&E	27,489.1	100.0	16,046.8	11,442	58.4	41.6
Total sciences	23,231.9	84.5	13,608.5	9,623	58.6	41.4
Physical sciences	2,599.7	9.5	1,859.5	740	71.5	28.5
Astronomy	389.3	1.4	277.2	112	71.2	28.8
Chemistry	915.1	3.3	615.5	300	67.3	32.7
Physics	1,142.3	4.2	862.1	280	75.5	24.5
Other	153.0	0.6	104.7	48	68.5	31.5
Mathematics	312.7	1.1	209.1	104	66.9	33.1
Computer sciences	860.0	3.1	582.2	278	67.7	32.3
Environmental sciences	1,689.6	6.1	1,100.7	589	65.1	34.9
Atmospheric sciences	288.0	1.0	222.5	66	77.3	22.7
Earth sciences	543.9	2.0	320.2	224	58.9	41.1
Ocean sciences	601.8	2.2	403.7	198	67.1	32.9
Other	255.8	0.9	154.3	102	60.3	39.7
Life sciences	15,591.3	56.7	8,920.2	6,671	57.2	42.8
Agricultural sciences	2,031.4	7.4	545.6	1,486	26.9	73.1
Biological sciences	5,012.5	18.2	3,203.3	1,809	63.9	36.1
Medical sciences	7,990.9	29.1	4,848.1	3,143	60.7	39.3
Other	556.5	2.0	323.2	233	58.1	41.9
Psychology	464.9	1.7	310.1	155	66.7	33.3
Social sciences	1,262.0	4.6	472.3	790	37.4	62.6
Economics	270.0	1.0	90.0	180	33.3	66.7
Political science	201.2	0.7	53.8	147	26.7	73.3
Sociology	269.9	1.0	119.4	150	44.2	55.8
Other	521.0	1.9	209.2	312	40.2	59.8
Other sciences	451.8	1.6	154.3	298	34.1	65.9
Total engineering	4,257.1	15.5	2,438.3	1,819	57.3	42.7
Aeronautical/astronautical	260.3	0.9	182.9	77	70.3	29.7
Bioengineering/biomedical	137.0	0.5	72.3	65	52.8	47.2
Chemical	349.7	1.3	179.4	170	51.3	48.7
Civil	528.8	1.9	216.2	313	40.9	59.1
Electrical/electronic	1,019.7	3.7	651.6	368	63.9	36.1
Mechanical	625.4	2.3	387.8	238	62.0	38.0
Materials	384.8	1.4	218.0	167	56.6	43.4
Other	951.3	3.5	530.1	421	55.7	44.3

^aSee appendix table 5-2 for detail on non-Federal sources.SOURCES: National Science Foundation, Division of Science Resources Studies (NSF/SRS), *Academic Science and Engineering R&D Expenditures: Fiscal Year 1999*, Detailed Statistical Tables, NSF 01-329 (Arlington, VA, 2001); and NSF, unpublished tabulations.